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PTO/SB/21 (08-03)  
 Approved for use through 08/30/2003. OMB 0651-0031  
 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE  
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<b>TRANSMITTAL FORM</b> (to be used for all correspondence after initial filing)		Application Number	10/735,433
		Filing Date	12/12/2003
		First Named Inventor	Sudarshan Palliyil
		Art Unit	2171
		Examiner Name	Unknown
Total Number of Pages in This Submission	293	Attorney Docket Number	JP920030163US1

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation <input type="checkbox"/> Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance communication to Technology Center (TC) <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Acknowledgement Postcard
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Anthony V.S. England
Signature	<i>Anthony V S England</i>
Date	6/20/2004

CERTIFICATE OF TRANSMISSION/MAILING	
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.	
Typed or printed name	Anthony V.S. England
Signature	<i>Anthony V S England</i>
Date	6/21/2004

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Approved for use through 07/31/2006. OMB 0651-0032  
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# FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ ) 180.00

## Complete if Known

Application Number	10/735,433
Filing Date	12/12/2003
First Named Inventor	Sudarshan Palliyil
Examiner Name	Unknown
Art Unit	2171
Attorney Docket No.	JP920030163US1

## METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None

☒ Deposit Account:

Deposit Account Number: International Business Ma  
Deposit Account Name: 09-0457

The Director is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☒ Credit any overpayments

☒ Charge any additional fee(s) or any underpayment of fee(s)

☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

## FEE CALCULATION

### 1. BASIC FILING FEE

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1001 770	2001 385	Utility filing fee	
1002 340	2002 170	Design filing fee	
1003 530	2003 265	Plant filing fee	
1004 770	2004 385	Reissue filing fee	
1005 160	2005 80	Provisional filing fee	

SUBTOTAL (1) (\$ ) 0

### 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims  -20\*\* =  X  =   
Independent Claims  -3\*\* =  X  =   
Multiple Dependent  =

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description
1202 18	2202 9	Claims in excess of 20
1201 86	2201 43	Independent claims in excess of 3
1203 290	2203 145	Multiple dependent claim, if not paid
1204 86	2204 43	** Reissue independent claims over original patent
1205 18	2205 9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$ ) 0

\*\*or number previously paid, if greater; For Reissues, see above

## FEE CALCULATION (continued)

### 3. ADDITIONAL FEES

Large Entity Small Entity

Fee Code (\$)	Fee Code (\$)	Fee Description	Fee Paid
1051 130	2051 65	Surcharge - late filing fee or oath	
1052 50	2052 25	Surcharge - late provisional filing fee or cover sheet	
1053 130	1053 130	Non-English specification	
1812 2,520	1812 2,520	For filing a request for <i>ex parte</i> reexamination	
1804 920*	1804 920*	Requesting publication of SIR prior to Examiner action	
1805 1,840*	1805 1,840*	Requesting publication of SIR after Examiner action	
1251 110	2251 55	Extension for reply within first month	
1252 420	2252 210	Extension for reply within second month	
1253 950	2253 475	Extension for reply within third month	
1254 1,480	2254 740	Extension for reply within fourth month	
1255 2,010	2255 1,005	Extension for reply within fifth month	
1401 330	2401 165	Notice of Appeal	
1402 330	2402 165	Filing a brief in support of an appeal	
1403 290	2403 145	Request for oral hearing	
1451 1,510	1451 1,510	Petition to institute a public use proceeding	
1452 110	2452 55	Petition to revive - unavoidable	
1453 1,330	2453 665	Petition to revive - unintentional	
1501 1,330	2501 665	Utility issue fee (or reissue)	
1502 480	2502 240	Design issue fee	
1503 640	2503 320	Plant issue fee	
1460 130	1460 130	Petitions to the Commissioner	
1807 50	1807 50	Processing fee under 37 CFR 1.17(q)	
1806 180	1806 180	Submission of Information Disclosure Stmt	\$180.00
8021 40	8021 40	Recording each patent assignment per property (times number of properties)	
1809 770	2809 385	Filing a submission after final rejection (37 CFR 1.129(a))	
1810 770	2810 385	For each additional invention to be examined (37 CFR 1.129(b))	
1801 770	2801 385	Request for Continued Examination (RCE)	
1802 900	1802 900	Request for expedited examination of a design application	

Other fee (specify) \_\_\_\_\_

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ ) 180.00

## SUBMITTED BY

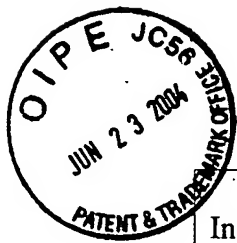
(Complete if applicable)

Name (Print/Type)	Anthony V.S. England	Registration No. (Attorney/Agent)	35,129	Telephone	512-477-7165
Signature	Anthony V.S. England	Date	6/20/2004		

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In application of: Palliyil	: Group Art Unit: 2171
Serial No.: 10/735,433	: Examiner: Unknown
Filed: 12/12/2003	: Anthony V.S. England 1717 West Sixth Street Suite 230
Title: METHODS, APPARATUS AND COMPUTER PROGRAMS FOR ENHANCED ACCESS TO RESOURCES WITHIN A NETWORK	: Austin, TX 78703

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents  
Washington, D. C. 20231

Sir:

Applicants submit herewith patents, publications or other information of which they are aware, which they believe may be material to the patentability of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR 1.56.

While this Information Disclosure Statement may be "material" pursuant to 37 CFR 1.56, it is not intended to constitute an admission that any patent, publication or other information referred to herein is "prior art" for this invention unless specifically designated as such.

In accordance with 37 CFR 1.97(g) the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56 (a) exists.

The attached form, PTO-1449, provides a listing of patents, publications, or other information as required by 37 CFR 1.98 (a)(1).

A copy of each of the items on PTO-1449 is supplied herewith.

Respectfully submitted,

Anthony V.S. England  
Attorney for Applicants  
Registration No. 35,129  
(512) 477-7165

06/25/2004 MHEKONEN 00000006 090457 10735433

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Substitute for form 1449/PTO and PTO/SB/08

**Complete if Known**

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Application Number	10/735,433
Filing Date	12/12/2003
First Named Inventor	Sudarshan Palliyil
Art Unit	2171
Examiner Name	Unknown
Attorney Docket No	JP920030163US1

Sheet 1 of 2

**US PATENT DOCUMENTS**

Examiner Initials	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US-6,195,695	02-27-2001	Cheston et al	
		US-6,577,920	06-10-2003	Hypponen et al	
		US-6,275,937	08-14-2001	Hailpern et al	
		US-6,526,418	02-25-2003	Midgley et al	
		US-6,480,097	11-12-2002	Bohm et al	
		US-6,460,055	10-01-2002	Midgley et al	
		US-6,298,445	10-02-2001	Shostack et al	
		US-5,502,815	03-26-1996	Cozza	
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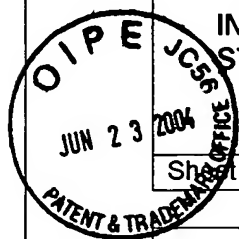
**FOREIGN PATENT DOCUMENTS**

Examiner Initials	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	<sup>6</sup> T
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				

Examiner  
Signature

Date  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14.  
**SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**



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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
(Use as many sheets as necessary)

Sheet 2 of 2

**Complete if Known**

Application Number	10/735,433
Filing Date	12/12/2003
First Named Inventor	Sudarshan Palliyil
Art Unit	2171
Examiner Name	Unknown
Attorney Docket No	JP920030163US1

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No <sup>1</sup>	Include name of Author (in CAPITALS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Internet Engineering Task Force (IETF) Network Working Group's Request for Comments 1321, "The MD5 Message-Digest Algorithm", R. Rivest, April 1992 (downloaded from Website 'www.ietf.org' on 4 July 2003).	
		IETF Network Working Group's RFC 3174, "US Secure Hash Algorithm 1 (SHA1)", D. Eastlake 3 <sup>rd</sup> and P. Jones, September 2001 (downloaded from Website 'www.ietf.org' on 4 July 2003).	
		W. Charlie Hu, Saumitra M. Das and Himabindu Pucha, "Exploiting the Synergy between Peer-to-Peer and Mobile Ad Hoc Networks" (downloaded from Website 'www.usenix.org' on 21 October 2003)	
		D. Youd, "What is a Digital Signature? An introduction to Digital Signatures" (downloaded from Website 'www.youdzone.com' on 21 October 2003).	
		W. Roush, "the internet reborn", Technology Review, October 2003, pages 28-37.	
		M. Bishop, "An Overview of Computer Viruses in a Research Environment", Technical Report, Department of Math and Computer Science, Dartmouth College, Hanover-NH 03755, 1992	
		S. Kumar and E.H. Spafford, "A generic virus scanner in C++", in Proceedings of the 8 <sup>th</sup> Computer Society Applications Conference, pages 210-219, Los Alamitos CA, December 1992, ACM, IEEE Computer Society.	
		B. Le Charlier, A. Mounji, M. Swimmer, "Dynamic detection and classification of computer viruses using general behaviour patterns", 1995 (downloaded from Website citeseer.nj.nec.com on 19 November 2003).	
		J.E.Berkes, "Decentralized Peer-to-Peer Network Architecture:Gnutella and Freenet", University of Manitoba, Winnipeg, Manitoba, Canada, 2003. (downloaded as file 'home.cc.umanitoba.ca/~umberkes/filessharing.pdf' from Web page 'home.cc.umanitoba.ca/~umberkes/academic.html' on 10 December 2003)	
		S. PALLIYIL et al., "Apparatus, Methods and Computer Programs for Controlling Performance of Operations within a Data Processing System or Network", IBM Patent Application Docket JP920030154US1 filed 12/12/2003.	
		S. PALLIYIL et al., "Apparatus, Methods and computer Programs for Identifying Matching Resources within a Data Processing Network", IBM Patent Application Docket JP920030270US1 filed 12/12/2003.	
		S. PALLIYIL et al., "Apparatus, Methods and Computer Programs for Identifying or Managing Vulnerabilities within a Data Processing Network", IBM Patent Application JP920030275US1 filed 12/12/2003.	

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.